



Foerster resonance energy transfer in inhomogeneous non-dispersive nanophotonic environments

Wubs, Martijn; Vos, Willem L.

Publication date:
2016

Document Version
Publisher's PDF, also known as Version of record

[Link back to DTU Orbit](#)

Citation (APA):
Wubs, M., & Vos, W. L. (2016). *Foerster resonance energy transfer in inhomogeneous non-dispersive nanophotonic environments*. Poster session presented at 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics, Malaga, Spain.

General rights

Copyright and moral rights for the publications made accessible in the public portal are retained by the authors and/or other copyright owners and it is a condition of accessing publications that users recognise and abide by the legal requirements associated with these rights.

- Users may download and print one copy of any publication from the public portal for the purpose of private study or research.
- You may not further distribute the material or use it for any profit-making activity or commercial gain
- You may freely distribute the URL identifying the publication in the public portal

If you believe that this document breaches copyright please contact us providing details, and we will remove access to the work immediately and investigate your claim.

Generation and Applications of High Average Power Mid-IR Supercontinuum in Chalcogenide Fibers

Christian Rosenberg Petersen^{*1}, Laurent Brilland², Johan Troles³, Ole Bang^{1,4}

¹ DTU Fotonik, Department of Photonics Engineering, Technical University of Denmark, DK-2800 Kgs. Lyngby, Denmark,

² SelenOptics, 263 Avenue du Gal Leclerc, Campus de Beaulieu, 35700 Rennes, France.

³ Equipe Verres et Céramiques, ISCR UMR-CNRS 6226, Université Rennes 1, 35042 Rennes Cedex, France.

⁴ NKT Photonics A/S, Blokken 84, DK-3460 Birkerød, Denmark.

*email: chru@fotonik.dtu.dk

Abstract: Mid-infrared supercontinuum with up to 54.8 mW average power, and maximum bandwidth of 1.77-8.66 μm is demonstrated as a result of pumping tapered chalcogenide photonic crystal fibers with a MHz parametric source at 4 μm .

© 2016 Optical Society of America

OCIS codes: (320.6629) Supercontinuum generation; (190.4370) Nonlinear optics, fibers; (060.2390) Fiber optics, infrared; (060.2290) Fiber materials; (160.4330) Nonlinear optical materials;